

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-41 (Cancelled)

42. (New) A system comprising:

a processing unit;

a memory device;

a network interconnection; and

a first unit to process an inquiry for data from a peer node, receive the requested data from a second peer node, transcode the data before transmitting the data to the peer node, wherein the transcoding includes converting the data into a format that can be processed by the peer node, and transmitting the data to the peer node in a transport specification as specified by the peer node.

43. (New) The system of claim 42, wherein the transport specification is specified by an application at the peer node.

44. (New) The system of claim 42, wherein the inquiry includes a user-specified query generated at the peer node.

45. (New) The system of claim 44, wherein the user-specified query includes a reference to a content of the requested data, and the system includes a content specific query handler to locate the requested data.

46. (New) The system of claim 42, wherein the data is transcoded into a format requested by the peer service layer of the peer node.
47. (New) The system of claim 42, wherein the system includes a programmatic access for applications to a peer-to-peer service layer.
48. (New) The system of claim 42, wherein the data includes multimedia data.
49. (New) The system of claim 42, wherein the peer node is a wireless device and an application support handler included at the system adjusts delivery of the data to a status of the peer node.
50. (New) The system of claim 42, wherein the system receives the data from the second peer node after the second peer node has transcoded the data.
51. (New) The system of claim 42, wherein a peer service layer at the peer node specifies the transport specification in the request for data.
52. (New) The system of claim 42, wherein the data is transcoded in response to a status of a network connection between the system and the peer node.
53. (New) A method comprising:
- a first peer node receiving an inquiry for data from a second peer node;
- the first peer node obtaining the data from a third peer node;
- the first peer node transcoding the data before transmitting the data to the second peer node, wherein the transcoding includes converting the data into a format that can be processed by the second peer node; and

transmitting the data to the second peer node in a transport specification as specified by the second peer node.

54. (New) The method of claim 53, wherein the transport specification is specified by an application at the second node.

55. (New) The method of claim 53, wherein the inquiry includes a user-specified query generated at the second node.

56. (New) The method of claim 55, wherein the user-specified query includes a reference to a content of the requested data, and the first peer node includes a content specific query handler to locate the requested data.

57. (New) The method of claim 53, wherein an application at the second peer node specifies the transport specification to a peer service layer at the second peer node.

58. (New) The method of claim 53, wherein the data is transcoded into a format requested by a peer service layer of the second peer node.

59. (New) The method of claim 53, wherein the second node includes a programmatic access to a peer-to-peer service layer.

60. (New) The method of claim 53, wherein the data includes multimedia data.

61. (New) The method of claim 53, wherein the second node is a wireless device and an application support handler at the first node adjust delivery of the data to a mobile location of the second node.

62. (New) The method of claim 53, wherein a peer service layer is included at the second node to provide system-level service below an operating system of the second node.

63. (New) The method of claim 53, wherein the third node transcodes the data prior to transmitting the data to the first node.

64. (New) The method of claim 53, wherein a peer service layer at the second peer node specifies the transport specification.

65. (New) The method of claim 53, wherein the data is transcoded in response to a status of a network connection between the first peer node and the second peer node.

66. (New) The method of claim 53, further comprising the second node transcoding the data after receiving the data from the first node, wherein the transcoding includes converting the data into a format that can be processed by the second peer node.

67. (New) An article comprising a computer-readable medium which stores computer-executable instructions, the instructions causing a first peer node to:

receive an inquiry for data from a second peer node;

obtain the data from a third peer node;

transcode the data before transmitting the data to the second peer node, wherein the transcoding includes converting the data to a format that can be processed by the second peer node; and

transmit the data to the second peer node in a transport specification as specified by the second peer node.

68. (New) The article of claim 67, wherein the transport specification is specified by an application at the second node.

69. (New) The article of claim 67, wherein the inquiry includes a user-specified query generated at the second node.

70. (New) The article of claim 69, wherein the user-specified query includes a reference to a content of the requested data, and the first peer node includes a content specific query handler to locate the requested data.
71. (New) The article of claim 67, wherein the second and first peer nodes include tables mapping user-defined names or metadata references to Globally Unique Identifiers identifying data stored within a network of peer-to-peer nodes.
72. (New) The article of claim 67, wherein the application at the second peer node specifies the transport specification to a peer service layer at the second peer node.
73. (New) The article of claim 67, wherein the data is transcoded into a format requested by a peer service layer of the second peer node.
74. (New) The article of claim 67, wherein the second node includes programmatic access to a peer-to-peer service layer.
75. (New) The article of claim 67, wherein the data includes multimedia data.
76. (New) The article of claim 67, wherein the second node is a wireless device and an application support handler at the first node adjust delivery of the data to a mobile location of the second node.
77. (New) The article of claim 67, wherein a peer service layer at the second peer node specifies the transport specification.
78. (New) The article of claim 67, wherein the data is transcoded in response to a status of a network connection between the first peer node and the second peer node.